# **Editorial Index**

Construction
Methods and Equipment

Volume 35 Jan. - Dec. 1953

A McGraw-Hill Publication

# A

#### ACCESSORIES

Good Filters Like Money in the Bank, p121, July

Hints on Care of Flexible Hose by R. H. Mc-Gregor, p97, Aug

How Do You Treat Your Batteries? by V. H. Parker, p109, July

Rubber Conveyor Belting Its Construction, Selection, Maintenance and Repair by Fred Matheis, lection, Ma p129, July

#### AIRCRAFT

The Easy But Expensive Way, p53, Oct.

#### AIRPORTS

Aviation Engineers Lay Big Runway in Korea. CARLE LAYING

# B

#### BATCHING

Batch Loader Pivots Over Stockpiles, p134, Jan.

Concrete Mixing and Placing by T. B. Appel, Jr. Part 2: Single-Material and Multiple Batchers. p103, Nov

Concrete Mixing and Placing by T. B. Appel, Jr. Part 3: Weighbeam and Dial Scales, p95, Dec.

Concrete Placed off Trestle at Folsom, p50, Mar.

Concrete Production on the Hudson, p40, Mar.

Concrete on Call at Palisades Dam, p57, Nov.

Site Batch Plant Supplies Two Pavers by John Grindrod, p64, April

#### BLASTING

Drill Barge Rides Everglades Muck by H. W. Richardson, p52, May

Safety with Explosives, p6, Feb.

Short Rounds Lick Mica Schist on Fast Tunnel Job by H. T. Perez, p58, May

Tunnel Blast Close-Up, p44, Jan.

### BOOK REVIEWS

Precast Concrete Construction; Book, p156, Oct.

#### BRIDGES

Columns in Pipe Simplify Bridge Piers, p84, Feb.

Concrete Slabs Make Good Replacement, p142,

Iron Girdle Holds Concrete for Bridge Pier Repair, p58, Oct.

Lift-Slab Technique Lowers Bridge, p112, Jan.

Long Causeway Rebuilt Under Traffic, p119, May

Precasting Pays Off on Long Concrete Trestle by H. W. Richardson, p54, Jan.

Simple Prestressing Methods on Tampa Bay Bridge by H. W. Richardson, p54, Sept.

Steel Forms Mold Concrete . . . C Pier Shells by L. L. Wise, p50, Dec Create Bridge

#### BUILDINGS

Air-Placed Concrete Eliminates Mortar, p54, Aug.

Barracks Erected with Vacuum Lift, p65, June

Casting Yard Operation Is Most Critical Phase of Four-Step Construction of Warehouses I Tip Brown, p55, Aug.

Continuous Pour Builds Concrete Bleach Plant,

From Start to Finish . . . 30 Days, 176 Working Hours, p159, Sept.

High Line Crew Places Novel Roof, p52, Feb.

Hydraulic Jacks Expand the Versatility of Sliporm Concreting, p64, May

Insulation Takes Lead . . . Bricks Trail in Brewery Wall by Rudolph H. Langer, p83, Jan.

New Twist in Wall Construction Pays Off, p59,

Old Steel Tops New Concrete Frame on Site of Former Light Structure, p80, April

Warehouses Go Up Fast and Cheaply by H. T. Perez, p104, Sept.

Steel Shores Fit Neatly Into Holes in Wall, Hold Two Floors for School Building Corner Modi-fication, p89, Feb.

Trucks From the Paducah Atom Plant, p82, Sept.

# C

Cable Laying in Wild West Calls for Big Tractor Power, p137, Feb.

These Three Gadgets Ease Cable-Laying, p63,

#### CANALS

Trimmer and Concrete Liner Finish Colorado Canal, p55, Feb.

#### COFFERDAMS

Iron Girdle Holds Concrete for Bridge Pier Repair, p58, Oct.

#### CONCRETE

Air-Placed Concrete Eliminates Mortar, p54, Aug.

Air Placement Cuts Column Concreting Costs,

Aviation Engineers Lay Big Runway in Korea,

Barracks Erected With Vacuum Lift, p65, June

Batch Loader Pivots Over Stockpiles, p. 134.

Box-Bucket Shovel Ups Paver Output 10%, p 62,

Casting Yard Operation is Most Critical Phase of Four-Step Construction of Warehouses by Tip Brown, p55, Aug.

Cement-Mud Raises Concrete Slabs, p103, Feb.

Chipping Machine Cuts Concrete Removal Time,

Columns in Pipe Simplify Bridge Piers, p84, Feb.

Concrete Blocks Support Shield-Driven Tunnel by H. T. Perez, p60, Nov.

Concrete Mixing and Placing by T. B. Appel, Jr. Part 1: Portable and Semi-Portable On-the-Job Plants, p94, Oct.

Concrete Mixing and Placing by T. B. Appel, Jr. Part 2: Single-Material and Multiple Batchers, p103, Nov.

Concrete Mixing and Placing by T. B. Appel, Part 3: Weighbeam and Dial Scales, p95, Dec.

Concrete on Call at Palisades Dam, p57, Nov.

Concrete Production on the Hudson, p40, Mar.

Concrete Slabs are Piled Neatly and Seven-High by Outsize Straddle Truck in Casting Yard, p123, Mar.

Concrete Slabs Make Good Replacement, p142,

Continuous Pour Builds Concrete Bleach Plant,

Centinuous Pour Raises Silo Fast by James W. MacDonald, p64, Jan.

Displacement Caissons Support Big Load, p102,

Concrete Placed Off Trestle at Folsom Dam, põü, Mar.

Heavy Precast Members Make Sturdy Tower Foundations by L. L. Wise, p60, Mar.

Hydraulic Jacks Expand the Versatility of Slip-Form Concreting, p64, May

Iron Girdle Holds Concrete for Bridge Pier Repair, p58, Oct.

Is High-Speed Vibrating Effective?, p149, May

Lightweight Joint Cuts Slab Cost, p66, Aug.

Little Cableway Places Concrete, p61, Apr.

Long Causeway Rebuilt Under Traffic, p119, May New Twist in Wall Construction Pays Off, p59,

Old Steel Tops New Concrete Frame on Site of Former Light Structure, p80, Apr.

One Man Makes Pipe, p86, Apr.

Precast Concrete Construction Book, p156, Oct.

Precast Warehouses Go Up Fast and Cheaply by H. T. Perez, p104, Sept.

Precasting Pays Off on Long Concrete Trestle by H. W. Richardson, p54, Jan.

Simple Forms Make the Job Go, p56, Feb.

Simple Prestressing Methods on Tampa Bay Bridge by H. W. Richardson, p54, Sept.

Site Batch Plant Supplies Two Pavers by John Grindrod, p64, Apr.

Steel Forms Mold Concrete, Create Bridge Pier Shells by L. L. Wise, p50, Dec.

They Didn't Start at Bottom and Work Up on This Job, p170, June

Trimmer and Concrete Liner Finish Colorado Canal, p55, Feb.

Two-Stories-Up Pouring of Transit-Mix is Easy for a Light-Duty Crane, p160, Jan,

Water Tops 600-Ft, Dam Built in 52 Days to Replace Timber Crib That Failed by F. L. Flood, Jr., p70, Jan.

Whoever Heard of Sawing Vertically Up a Concrete Wall?, p62, May

# COVER SUBJECT

Manitowoc Shovel Excavating for Railroad, p192,

Caterpillar Pipelayers Clean and Prime Oil Pipe in British Columbia Rockies, p210, Feb.

Parsons Trenchliner Digging Utility Trenches at Newark, N. J., Airport, p234, Mar.

Osgood Backhoe Excavating for Storm Sewer, p226, Apr. Barber-Greene Loader and Travel Plant, Johnson Spreader, Mix and Place Soil-Cement, p226, May

Manitowoc Speedcrane Sets Penstock Sections, p226, June

Distributor's Representative in Field Telephones from his International Truck, p256, July

Madsen Asphalt Plant in Gravel Pit in Minn. p176. Aug

Rex Truck Mixer Pours Curbing in Wisconsin, p220, Sept. Half-Mile Barber-Green Conveyor at Folsom Dam in California, p208, Oct.

Cedarapids Commander Portable Plant Pushing Out Gravel, p210, Nov

Drott Skid-Shovel Brings in the Yule Tree, p176.

# CONSTRUCTION EQUIPMENT NEWS

p162, Jan.; p178, Feb.; p194, Mar.; p190, Apr.; p182, May; p190, June; p216, July; p140, Aug.; p184, Sept.; p172, Oct.; p182, Nov.; p142, Dec.

# CONSTRUCTION NEWS IN PICTURES

p46, Jan.; pp44, 47, Feb.; pp43, 44, Mar.; p44, Apr.; pp46, 48, May; p44, June; p45, Aug.; p46, Sept.; pp45, 46, Oct.; pp44, 47, Nov.; p46, Dec.

# CONSTRUCTION 'ROUND THE WORLD

p156, Feb.; p47, Apr.; p47, June; p46, Aug.; p49, Sept.; p163, Nov.

### CRUSHING AND SCREENING

Aviation Engineers Lay Big Runway in Korea,

Plant Improves Gravel Dredged From River Bed,

#### CULVERTS

Heavy Corrugated Culverts Take Creek Under High Fill, p92. Feb.

# D

#### DAMS

Big Equipment Moves in on Palisades Dam, Reclamation Bureau's Biggest Earth Fill, p96, Mar.

oncrete Placed Off Trestle at Folsom Dam, p50,

Dozer Blocks Old Road for New Dam as Shovel, Trucks, Scraper Supply Fill, p119, Mar.

Here's One Way to Build a Rock-Fill Dam by Henry T. Perez, p52, June

Missouri River Corralled at Garrison Dam, p149, June

Riprap Weir Takes High Water Across Rolled Earthfill, Helps Tunnels Divert Stream Over Dam Under Construction by J. R. Stephens, p92, Sept.

Side-Cutting Euclid Loader Speeds Palisades Dam Fill by L. L. Wise, p50, Oct.

Sluicing Pumps Wash Fines Out of Fill . . . Create Impervious Core in Earthfill Dam p62, Aug.

Water Tops 600-Ft. Dam Built in 52 Days to Replace Timber Crib That Failed by F. L. Flood, Jr., p70, Jan.

#### DEMOLITION

Concrete Cutter Gets Lift on Wall Demolition Job, p118, Aug.

Scatfold Goes Inside to Topple Tower, p156, May

#### DISMANTLING

Lift-Slab Technique Lowers Bridge, p112, Jan.

# DITCHING

New Zealanders Design a 10-Ft. Bucket to Mount on a Backhoe for Ditch Work, p148, Mar.

# DEWATERING

Barge-Mounted Pumps Drain Large Drydock, p110, Aug.

Electric Curtain Stabilizes Wet Ground for Deep Excavation by H. W. Richardson, p52, Apr.

Freeze Wet Ground to Sink Deep Shaft, p84,

Wellpoints Can Do Many Jobs, p72, June

#### DOCKS

Air Jacks Are the Key to Prefab Dock, p132, May

#### DRAINAGE

Lays 300 to 400 Feet of Tile Per Hour, p56, May Perforated Pipe Pumps Handle Water Drainage. p176, Mar.

#### DREDGING

Specially Designed Dredge Handles Tough Boulder Clay, p110, Apr.

#### DRILLING

Breaking Concrete Straight and Fast, p43, Apr. Drill Barge Rides Everglades Muck by H. W. Richardson, p52, May

Easy-Chair Drilling, p42. Oct.

Freeze Wet Ground to Sink Deep Shaft, p84,

Pipeline Drill Sled, p45, Sept.

Short Rounds Lick Mica Schist on Fast Tunnel Job by H. T. Perez, p58, May

Vertical Drills Blast Holes, p158, Feb.

#### DRYDOCKS

Barge-Mounted Pumps Drain Large Drydock, p110, Aug.

# E

#### EARTHFILL

Big Equipment Moves in on Palisades Dam, Reclamation Bureau's Biggest Earth Fill, p96, Mar.

Cat Sled Trains and Light Float Planes Build Railroad Through North Canadian Bush by H. W. Richardson, p62, Oct.

Dozer Blocks Old Road for New Dam as Shovel, Trucks, Scraper Supply Fill, p119, Mar.

Heavy Corrugated Culverts Take Creek Under High Fill, p92, Feb.

Here's One Way to Build a Rock-Fill Dam by Henry T. Perez, p52, June

Riprap Weir Takes High Water Across Rolled Earthfill, Helps Tunnels Divert Stream Over Dam Under Construction by J. R. Stephens, p92, Sept.

Side-Cutting Euclid Loader Speeds Palisades Dam Fill by L. L. Wise, p50, Oct.

Sluicing Pumps Wash Fines Out of Fill . . . Create Impervious Core in Earthfill Dam, p62,

#### EARTHMOVING

Big Equipment Moves in on Palisades Dam, Reclamation Bureau's Biggest Earth Fill, p96, Mar.

Cat Sled Trains and Light Float Planes Build Railroad Through North Canadian Bush by H. W. Richardson, p62, Oct.

Contractors Make Dirt Fly for Popular Cause,

Dozer Blocks Old Road for New Dam as Shovel, Trucks, Scraper Supply Fill, p119, Mar.

Heavy Corrugated Culverts Take Creek Under High Fill, p92, Feb.

High-Production Grading in Texas by E. F. Lonpss. Jan

Motorists' West Virginia Turnpike View is Spectacular, but Contractors' View is Hard Work, Rough Going by R. H. Lewis, p64, Sept.

Rough Stuff in Alaska, p44, May

Side-Cutting Euclid Loader Speeds Palisades Dam Fill by L. L. Wise, p50, Oct.

Ten Ways to Cut Cycle Time, p62, Apr.

The Big Push, p42, Aug.

You Can Doze in Winter, p50, Jan.

#### EDITORIALS (McGraw-Hill)

Prosperity in the USA: Who Has It?, p157, Jan. Prosperity in the USA: How Wealthy Are We 7, p161, Feb.

Prosperity in the USA: How Deeply in Debt Are We?, p179, Mar.

For Real Help to Small Business, p183, Apr.

Depreciation and Its Crucial Economic Role,

One Sure Way to Get More Defense for Less Money, p127, Aug

Britons Can Have Prosperity-If They Want It.

Profits . . . How High Are They?, p171, Nov

What Are Profits Used For?, p37, Dec.

### EDITORIALS (by Rich)

We've Got a Bear by the Tail, p49, Jan.

Vindication in Morocco, p51, Feb.

oming Up: More and Better Equipment, p49,

Asking for Trouble, p51, Apr.

Construction . . . The Rock Foundation of Economic Stability, p51, May

Somebody Should Re Mighty Proud!, p51, June

Protect Your Investment, p65, July

One United Construction Union, p49, 1 What it Would Mean to Contracting

One United Construction Union, p53, Sept. 2. What it Means to Labor

What's Used Equipment Worth?, p49, Oct.

Job-Placement Physical Examination . . . Are They Desirable?, p51, Nov.

entractors Favor One Construction Union, p49,

#### EMBANKMENTS

Thanks for the Lift!, p61, Feb.

#### EQUIPMENT

Aerial Cableway Speeds Pipe-Bridge Salvage, p148, Oct.

Air Motors Start Cold Diesels, p128, Jan.

Air Placement Cuts Column Concreting Costs,

Air-Powered Saw Can Be Used Anywhere . . . Even Under Water by James M. Connolly, p121,

All-Purpose Fence Builder, p174, Mar.

Asphalt Sealer Sprayed by Air Guns . . . Air-Placed Sand Follows p136, Aug.

Austin-Western's All-Hydraulic Crane by H. W. Richardson, p116, Dec

Baker-Lull Launches Rugged Front-End Loader by H. W. Richardson, p116, Sept.

Barge-Mounted Pumps Drain Large Drydock, p110, Aug

Batch Loader Pivots Over Stockpiles, p134, Jan. Big Dredge Bulls Its Way Down the Big Muddy,

Big Rig Pays Off on Small Job, p43, Feb.

Big Rigs Drive 220-Ft, Pipe Piles by Hal Hunt, p62, Feb.

Big Top Speeds Job During Winter Months, p80,

Biggest Bay City Crawler: Popular Design With Extras, p123, Nov.

Box-Bucket Shovel Ups Paver Output 19%, p62,

Breaking Concrete Straight and Fast, p43, Apr.

Build or Buy This Roading Axle, p114, Aug.

Cable Laying in Wild West Calls for Big Tractor Power, p137, Feb.

Caterpillar's Newest . . . the No. 6 Shovel, p132,

Chipping Machine Cuts Concrete Removal Time, p58 Nov. Coming Up: More and Better Equipment, p49,

Concrete Blocks Support Shield-Driven Tunnel by H. T. Perez, p60, Nov.

Concrete Cutter Gets Lift on Wall Demolition Job, p118, Aug.

Concrete Mixing and Placing by T. B. Appel, Jr. Part 1: Portable and Semi-Portable On-the-Job Plants, p94, Oct.

Concrete Mixing and Placing by T. B. Appel, Jr. Part 2: Single-Material and Multiple Batchers,

p103, Nov. Concrete Mixing and Placing by T. B. Appel, Jr. Part 3: Weighbeam and Dial Scales, p95, Dec.

Concrete Production on the Hudson, p40, Mar.

Concrete Slabs are Piled Neatly and Seven-High by Outsize Straddle Truck in Casting Yard, p123,

Concrete Spreader on a Boom, p43. June

Continuous Miner Digs Sewer Tunnel Through Shale, p54, Oct.

Contractor Makes His Own Sheepsfoot Roller, p63, Sept.

Contractor's Formless Paver Shows Promise by H. James Spelman, Jr., p128, Sept.

Dart Sparks New Ideas in World's Largest End-Dump Truck, p111, May

Drill Barge Rides Everglades Muck by H. W. Richardson, p52, May

East German Regime Manufacturers Construction Equipment, Too. p58, Apr.

Easy-Chair Drilling, p42, Oct.

Eimco Rocker Shovel Built on Integral Crawlers by H. W. Richardson, p138, Nov.

Electric-Powered Wrench Speeds This Job, p132, Aug.

Electricity Anywhere on the Job, p122, Feb.

15X-Baker's New, Husky No-Pushbeam Bulldozer by James M. Connolly, p107, Feb.

Gallows Frame Sets Big, Fragile Tank, p106, Apr.

Giant Floating Driver Built for Bridge Job, p57, Oct.

Help Wanted . . . Experienced in Hydroflation, p160, Nov.

High Scaffolding Supports Heavy Stone, p60,

Home-Made Traveling Hoist Handles Big Truck Tires, p106, July

How Four-Cycle and Two-Cycle Diesels Work by J. W. Brown, p107, Mar.

How to Select the Correct Sling for the Job by W. C. Richards, p114, Apr.

How to Trouble-Shoot Your Hydraulic Systems, p170, July

Hydraulic Jacks Expand the Versatility of Slip-Form Concreting, p64, May

Is High-Speed Vibrating Effective?, p149, May

It's Not the Fall . . . It's the Sudden Stop by W. E. Rossnagel, p112, Feb.

Jacger Rolls Into Loader Field With Torque-Converter 1-Yd, Unit by H. W. Richardson, p93, Apr.

Lays 300 to 400 Feet of Tile Per Hour, p56, May

Lifetime Battery?, p215, May

Little Cableway Places Concrete, p61, Apr.

Little Rig Deepens Cellar After Entry Thru Window, p61, Jan.

Low-Boy Trailer Crane Will Job Lift 45 Tons, p126, June

Mobile Lube Rig Feeds 'Em Fast, p59, July

New Zealanders Design a 10-Ft. Bucket to Mount on a Backhoe for Ditch Work and It's Towed Along by a Tractor, p148, Mar.

Old Axles, Wheels, Tires Make Pipe-Lowering Winches, p105, Aug.

Oliver Replaces OC-18 Final Drives, p158, Nov.

On-the-Job Service Unit, p154, Oct.

One Man Makes Pipes, p86, Apr

Picture of the Month: Beating Jack Frost, p43, Nov.

"Pile-Driver" Bucket Digs Hard Materials, p65, Nov.

Pipeline Drill Sled, p45, Sept.

Plant Improves Gravel Dredged From River Bed, p71, Sept.

Power Scraper Clears Highway Shoulders, p152, Sept.

Power Take-Off Drive for Trailers, pl30, Nov.

Precise Sloping Ditch Replaces Weed-Choked and Silted Roadside, p92, Mar.

Pumps Produce, Classify and Load Sand, p61, Oct. Rig Cuts Manpower in Half, Eliminates 6 Trucks on 150-Mile Pipeline Job, p57, May

Rough Stuff in Alaska, p44, May

Scaffold Goes Inside to Topple Tower, p156, May Scaffolding Helps Speed the Job, p186, June

Schield Puts Bantams on Crawlers by H. W. Richardson, p87, Aug.

Self-Contained Arc. p150, Apr.

Shelter for Maintenance in the Field, plas, Sept.

Sheppard Builds Them Strong, But Makes Them Simple by R. H. Lewis, p110, Oct.

Side-Cutting Euclid Loader Speeds Palisades Dam Fill by L. L. Wise, p50, Oct.

Simple Forms Make the Job Go, p56, Feb.

Slop-Tight Endgate Added to Mack Trucks on Job, p59, Mar.

Sluicing Pumps Wash Fines Out of Fill . . . Create Impervious Core in Earthfill Dam, p62, Aug.

Specially Designed Dredge Handles Tough Boulder Clay, p110, Apr.

Steam Drives New Rock Drill, p135, Sept.

Submarine Pipeline is Too High, So Jet-Action Trencher Lowers it 17 Ft. and Weights Hold It There at El-80 by H. T. Perez, p50, Aug.

Thanks for the Lift!, p61, Feb.

The Big Push, p42, Aug.

The Easy But Expensive Way, p53, Oct.

These Three Gadgets Ease Cable-Laying, p63, Mar.

Thew Adds Two Lorains, p111, Feb.

This Contractor Runs Construction Costs Down By Building Ramps and Purchasing Buggies by R. H. Lewis, p93, June

To Help Cure Overload Problems Add a Steering Axle to Front Axle, p160, June

Tractor Shovels Part 1: Development, Uses and Equipment by R. D. Evans, p88, May

Tractor Shovels Part 2: Correct Operating Procedures by R. D. Evans, p109, June

Traveling Asphalt Plant Mixes Soil-Cement Base, p153, Mar.

Trimmer and Concrete Liner Finish Colorado Canal, p55, Feb.

Turn on the Heat Part 1, p66, Nov.

Turn on the Heat Part 2, p68, Dec.

Two Digging for Two Barrels, p42, Dec.

Two-Stories-Up Pouring of Transit-Mix is Easy for a Light-Duty Crane, p160, Jan.

Vertical Drill Blast Holes, p158, Feb.

Wellpoints Can Do Many Jobs, p72, June

What You Should Know About Hose by J. A. Muller, p76, Feb.

What You Should Know About Rope by John Durgin, p133, Mar.

What's Needed and What's Coming in Military Earthmoving Equipment, p150, Feb.

What's Used Equipment Worth?, p49, Oct.

Where's the Exhaust Pipe?, p137, June

Whoever Heard of Sawing Vertically Up a Concrete Wall?, p62, May

You Can Get These Maintenance Manuals p66, July

#### EXCAVATING

Air Jacks Push Pipe Through Embankment, p78, Jan.

Concrete Blocks Support Shield-Driven Tunnel by H. T. Perez, p60, Nov.

Electric Curtain Stabilizes Wet Ground for Deep Excavation by H. W. Richardson, p52, Apr.

Flood-Buckled Sheet Piling Straightened Without Pulling, p132, Nov. 42-Story Building Straddles R.R. Tracks on 250 Concrete Caissons 110 Ft. in Depth by John P. Draney, Jr., p141, June

Freeze Wet Ground to Sink Deep Shaft, p84,

Little Rig Deepens Cellar After Entry Thru Window, p61, Jan.

Motorists' West Virginia Turnpike View is Spectacular, but Contractors' View is Hard Work, Rough Going by R. H. Lewis, p64, Sept.

New Tunneling Achievements Reached in Driving Big Ontario Hydro Tubes by H. W. Richardson, p64, Mar.

Rough Stuff in Alaska, p44, May

Two Digging for Two Barrels, p42, Dec.

# E

#### FIRES

Asking for Trouble, p51, Apr.

#### FOREIGN

Air Jacks Are the Key to Prefab Dock, p132,

Aviation Engineers Lay Big Runway in Korea, n52 Nov.

Batch Loader Pivots Over Stockpiles, p134, Jan

Construction 'Round the World p156, Feb.; p47, Apr.; p47, June; p46, Aug.; p49, Sept.; p163, Nov.

East German Regime Manufacturers Construction Equipment, Too, p58, Apr.

Native Materials Make Good Road, p172, May

New Zealanders Design a 10-Ft. Bucket to Mount on a Backhoe for Ditch Work and It's Towed Along by a Tractor, p148, Mar.

Safety Saves Money at Project Blue Jay p150,

Site Batch Plant Supplies Two Pavers by John Grindrod, p64, Apr.

# FOUNDATIONS

Displacement Caissons Support Big Load, p102, June

42-Story Building Straddles R.R. Tracks on 250 Concrete Caissons 110-Ft, in Depth by John P. Draney, p141 June

Heavy Precast Members Make Sturdy Tower Foundations, by L. L. Wise, p60, Mar.

Simple Forms Make the Job Go, p56, Feb.

#### FUELS

LPG as Construction Machinery Fuel p68, Aug

# H

# HEATING

Beating Jack Frost, p43, Nov.

Turn on the Heat: Part 1, p66, Nov.

Turn on the Heat: Part 2, p68, Dec.

#### HIGHWAY

Motorists' West Virginia Turnpike View is Spectacular, but Contractors' View is Hard Work, Rough Going by R. H. Lewis, p64, Sept.

Power Scraper Clears Highway Shoulders, p152, Sept.

Precise Sloping Ditch Replaces Weed-Choked and Silted Roadside, p92, Mar,

# HISTORY OF CONSTRUCTION

Ancient Chariots Built the West, p160 Mar

Romans Master Road Builders, p148, Jan.

250 Years of Crawling, p140, May

#### HOISTING

Gallows Frame Set Big, Fragile Tank, p106, Apr. Good Fabrication and Erection Ideas, p126, May

Home-Made Traveling Hoist Handles Big Truck Tires, p106, July

How to Select the Correct Sling for the Job by W. C. Richards, p114, Apr.

Permanent Shaft Acts as Temporary Pedestal, p136, Apr.

# I

#### INSTRUCTION

Dealer's Unit Goes Right Out to the Job, Becomes School for Wide Open Spaces, p50, July

High-Strength Steel Helps You by A. F. Stue-bing, p186, July

Hints on Care of Flexible Hose by R. H. Mc-Gregor, p97, Aug.

How Four-Cycle and Two-Cycle Diesels Work by J. W. Brown, p107, Mar.

How to Avoid Electric Tool Shock by Dr. Edwin Lotz, p69, Apr

How to Construct Terne Steel Roofs, p174, Apr

How to Sharpen Carbide-Tipped Drills, p12, Aug. How to Trouble-Shoot Your Hydraulic Systems, p170. July

It's a Good Idea: School for Construction Supervision, p132, Feb.

Take Time to Instruct New Employees, p144, May

This Army Way is the Right Way, p148, July

Tractor Shovels - Part 2: Correct Operating Procedures by R. D. Evans p109, June

What Makes a Distributor Tick?, p166, July

What You Should Know About Rope by John Durgin, p133, Mar.

### IT'S YOUR BUSINESS

Construction Looks Good for 1953, p16, Jan.

Do Tractors Follow Construction?, p16, Jan.

Contractor Failures Off Slightly Last Year, p16,

Highway Contracts Coming Up Top \$2.2 Billion, pl8, Mar.

How the Economy Directive Affects Federal Construction, p18, Mar.

Federal Slump is Temporary, p26, Apr.

Equipment Supply Good, Only Moderate Price Increases in Sight, p26, Apr.

Excavating and Earthmoving Equipment Shipments, p26, Apr.

How Future Construction is Moving Into the Market, p16, May

Some Construction Machinery Prices Rise, p16, May

Costs Rise More than Prices . . . Watch That Productivity, p26, June

Prices Rise Some More for Construction Machines, p26, June

More Construction, but More Competition, p32, July

Mid-Year Round-Up Shows, p20, Aug

New Money, p20, Aug.

New Equipment, p20, Aug.

New Wage Pattern, p20, Aug.

Prices, p20, Aug.

Contractors Raise Capacity Faster Than Engineers Call for Bids, p18, Sept.

Carry-Over Funds Add to New Federal Appropriations, pls. Sept

Lineup of U. S. Appropriations, p20, Sept.

Local Public Works Take Spotlight in 1954 Con- Two Important Appointees, p85, Aug. struction Picture, p26, Oct.

Used Equipment Prices Set at Auction, p26, Oct.

Equipment Shipments at Near-Record in '53,

Construction Backlog Levels Off, p26, Nov.

Prices Up on Cranes and Tractors, p28, Nov.

New Money Rolls in Fast to Finance New Construction, p18, Dec.

Voters Approve Bonds for Close to \$1 Billion in Public Works, p18, Dec.

Higher Steel and Wage Costs Halt Decline in Highway Bid Prices, p18, Dec.

# J

#### JACKING

Air Jacks Are the Key to Prefab Dock, p132, May

Air Jacks Push Pipe Through Embankment, p78. Jan.

Hydraulic Jacks Expand the Versatility of Slip-Form Concreting, p64, May

Lift-Slab Technique Lowers Bridge, p112, Jan. Steel Shores Fit Neatly Into Holes in Wall, Hold Two Floors for School Building Corner Modifi-cation, p89, Feb.

p24, Jan.; p6, Feb.; p12, Mar.; p20, Apr.; p8, May; p10, June; p16, July; p12, Aug.; p6, Sept.; p16, Oct.; p12, Nov.; p6, Dec.

# L

#### LABOR

Contractors Favor One Construction Union, p49,

How to Improve Contractor-Labor Relations by L. B. Kromer, Jr. Part 1: What the Contractor Can Do, p79, Oct.

How to Improve Contractor-Labor Relations by L. B. Kromer, Jr.—Part 2: The Unions Make L. B. Kromer, Jr. Pa Suggestions, p130, Dec.

Job-Placement Physical Examination . . . Are They Desirable, p51, Nov.

On-the-Job Contractor-Labor Relations by L. B. Stabilization Continues, p142, Jan.

Enforcement Continues, p142, Jan.

CISC Amends Its Regulations, p142, Jan.

Extension of CISC Jurisdiction, p144, Jan.

Changes in Taft-Hartley?, p146, Jan.

As the New Congress Convenes, p124, Feb.

With Changes Pending, p124, Feb.

The Welfare Trap, p127, Feb.

Pay Controls Have Ended but, p164, Mar.

More Brawn for the National Joint Board, p167,

Enforcement of the Wage-Hour Law, p167, Mar. On Taft-Hartley, p142, Apr.

Materials Boycott, p142, Apr.

Featherhedding, p144, Apr.

Wage and Hour Law, p154, May

More on Taft-Hartley Hearings, p154, May

State or Federal Labor Laws 2, p174, June

Negotiations 1953, p174, June

Your Equipment Repair Yard, p194, July

More on Wage Negotiations 1953, p197, July Strikes and Strike Settlement, p82, Aug.

Jurisdictional Disputes, p84, Aug

Carpenters, pl44, Sept.

Building Trades Convention, p142, Oct.

Wage-Hour Law Again, p142, Oct.

Carpenters' Return, p146, Oct.

Holiday Pay, p164, Nov.

A Test of Strength, pl67, Nov.

The New Labor Secretary, p170, Nev.

One United Construction Union. 1. Would Mean to Contracting, p49, Aug. 1. What It

One United Construction Union, 2 What It Means to Labor, p53, Sept.

We've Got a Bear by the Tail, p49, Jan.

What the Readers Think of "One United Con-struction Union", p163, Dec.

#### LIFESAVING

Construction Heroes by Henry F. Unger, pas,

#### LITERATURE FROM MANUFACTURERS

p179, Jan.; p200, Feb.; p222, Mar.; p214, Apr.; p209, May; p207, June; p210, July; p160, Aug.; p206, Sept.; p198, Nov.; p158, Dec.

# M

#### MACHINE ERECTION

Heavy Presses are Set by Novel Methods, p56,

#### MAINTENANCE

Air Motors Start Cold Diesels, p128, Jan.

Analyzed Oil Samples From Construction Equip-ment Cut Maintenance Costs, p156, July

Automatic Welding Builds Up Teack Links, p105, Jan.

Beating Jack Frost, p43, Nov.

Break-In That New Tractor, p87, Sept.

Dealer's Unit Goes Right Out to the Joh, Becomes School for Wide Open Spaces, p50, July

Dirt . . . Enemy of an Engine, p159, Nov.

Good Filters Like Money in the Bank, p121, July tirense It Right!, p60, Oct.

Help Wanted . . . Experienced in Hydroflation, p169, Nov.

Hints on Care of Flexible Hose by R. H. Mc-

Home-Made Traveling Hoist Handles Big Truck Tires, p196, July

How Do You Treat Your Batteries by V. H. Parker, plos, July

How Four-Cycle and Two-Cycle Diesels Work by J. W. Brown, p107, Mar.

y to Avoid Electric Tool Shock by Dr. Edwin Lotz, p69, Apr

How to Trouble-Shoot Your Hydraulic Systems, p170, July

Idea From a Distributor's Shop, p62, July

Lifetime Battery?, p215, May

Maintenance at High Noon, p54, July

Mobile Lube Rig Feeds 'Em Fast, p59, July

Oliver Replaces OC-18 Final Drives, p158, Nov.

On-the-Job Service Unit, p154, Oct.

Parts . . . An Answer to Keep Equipment Run-ning . . . Here's What Euclid and Caterpillar Do About It, p122, July

Proposals for Repair Parts Books, p134, Aug.

Quick Field Repair; Part of System to Make It and Save Money, p98, July

Rough on the Guy in the Middle, p152, July

Rubber Conveyor Belting Its Construction, Selection, Maintenance and Repair by Fred Matheis,

Shelter for Maintenance in the Field, p138, Sept.

Simple Forms Cut Maintenance Paper Work, plis, July

This Army Way Is the Right Way, p148, July This Is Old Stuff But Worth Reviewing, p140,

Tight Air Lines Save Money, p182, July

What Makes a Distributor Tick?, p166, July

What You Should Know About Hose by J. A. Muller, p76, Feb.

What You Should Know About Rope by John Durgin, p133, Mar.

You Can Get These Maintenance Manuals, p66,

#### MARINE OPERATIONS

Giant Floating Driver Built for Bridge Job, p57,

Heavy Precast Members Make Sturdy Tower Foundations by L. L. Wise, p60, Mar.

Submarine Pipeline is Too High, So Jet-Action Trencher Lowers It 17 Ft. and Weights Hold It There at El-80 by H. T. Perez, p50, Aug.

Twin Pipelines Cross 4-Mile Straits, p54, Dec

#### MASONRY

How to Repair Leaking Masonry, p86, Mar.

#### MATERIALS

Asphalt Sealer Sprayed by Air Guns - Air-Placed Sand Follows, p136, Aug.

High-Strength Steel Helps You by A. F. Stuebing, p186, July

How to Construct Terne Steel Roofs, p174, Apr.

Lightweight Joint Cuts Slab Cost, p66, Aug.

New Metal Lath Helps Fireproof Columns, p135, Oct.

Perforated Pipe Sumps Handle Water Drainage,

Spinning an Aluminum Spiderweb by  $\mathbf{H}$ . W. Richardson, p60, June

Waterstops Water at Hotel Pool, p101, Aug.

#### MATERIALS HANDLING

Barracks Erected with Vacuum Lift, p65, June

Casting Yard Operation is Most Critical Pha of Four-Step Construction of Warehouses I Tip Brown, p55, Aug.

Concrete Placed Off Trestle at Folsom, p50, Mar.

Concrete Slabs are Piled Neatly and Seven-High by Outsize Straddle Truck in Casting Yard, p123, Mar.

Little Cableway Places Concrete, p61, Apr.

Site Batch Plant Supplies Two Pavers by John Grindrod, p64, Apr

This Contractor Runs Construction Costs Down By Building Ramps and Purchasing Buggies by R. H. Lewis, p93, June

Tractor Shovels - Part 1: Development, Uses and Equipment by R. D. Evans, p88, May

Tractor Shovels Part 2: Correct Operating Procedures by R. D. Evans, p109, June

#### METHODS MEMO

p192, Jan.; p210, Feb.; p234, Mar.; p226, Apr.; p226, May; p226, June; p256, July; p176, Aug.; p220, Sept.; p208, Oct.; p210, Nov.; p176, Dec.

#### MILITARY

What's Needed and What's Coming in Military Earthmoving Equipment, p150, Feb.

#### MOVING

Big Dredge Bulls Its Way Down the Big Muddy, p136, June

Heavy Presses are Set by Novel Methods, p56,

1,900-Ton Tower Moves on Steel Balls, p78, Feb.

Stator Moved 11 Mi. by Aid of Two Mack Winch Trucks and Trailers, p112, Apr.

#### MUD JACKING

Cement-Mud Raises Concrete Slabs, p103, Feb.

# P

#### PARTS

Parts . . . An Answer to Keep Equipment Running. Here's What Euclid and Caterpillar Do About It, p122, July Parts .

Proposals for Repair Parts Books, p134, Aug. What Makes a Distributor Tick?, p166, July

#### PAVEMENTS

Sand in Cut Keeps Asphalt Separated, p152, Oct.

Aviation Engineers Lay Big Runway in Korea,

Box-Bucket Shovel Ups Paver Output 10%, p62,

Contractor's Formiess Paver Shows Promise by H. James Spelman, Jr., p128, Sept.

Lightweight Joint Cuts Slab Cost, p66, Aug.

Site Batch Plant Supplies Two Pavers by John

Traveling Asphalt Plant Mixes Soil-Cement Base, p153, Mar.

#### PICTURE OF THE MONTH

Tunnel Blast Close-Up, p44, Jan.

Big Rig Pays Off on Small Job, p43, Feb.

Concrete Production on the Hudson, p40, Mar.

Breaking Concrete Straight and Fast, p43, Apr.

Rough Stuff in Alaska, p44, May

Concrete Spreader on a Boom, p43, June

Maintenance at High Noon, p54, July

The Big Push, p42, Aug.

Pipeline Drill Sled, p45, Sept.

Easy-Chair Drilling, p42, Oct.

Beating Jack Frost, p43, Nov.

Two Digging for Two Barrels, p42, Dec.

Big Rigs Drive 220-Ft. Pipe Piles by Hal Hunt, p62. Feb.

Columns in Pipe Simplify Bridge Piers, p84, Feb.

Heavy Precast Members Make Sturdy Tower Foundations by L. L. Wise, p60, Mar.

Iron Girdle Holds Concrete for Bridge Pier Repair, p58, Oct.

#### PILES

Big Rig Pays Off on Small Job, p43, Feb.

Big Rigs Drive 220-Ft. Pipe Piles by Hal Hunt, p62, Feb.

Compact Subbase With Sand Piles, p156, Sept. Displacement Caissons Support Big Load, p102,

Efficiency with Composite Piling, p168, Mar.

Flood-Buckled Sheet Piling Straightened Without Pulling, p132, Nov.

Giant Floating Driver Built for Bridge Job, p57,

Precasting Pays Off on Long Concrete Trestle by H. W. Richardson, p54, Jan.

Water Tops 609-Ft. Dam Built in 52 Days to Replace Timber Crib That Failed by F. L. Flood, Jr., p70, Jan.

#### PIPELINES

Marine Pipeline Threaded Under Road and Out to Sea in Only 13 Hours, p108, Oct.

Old Axles, Wheels, Tires Make Pipe-Lowering Winches, p105, Aug.

Pipeline Drill Sled, p45, Sept.

Cuts Manpower in Half, Eliminates 6 cks on 159-Mile Pipeline Job, p57, May

Simple Procedures Help Divers Place Sewer Outfall by James H. Gilbert, p81, Mar.

Submarine Pipeline is Too High, So Jet-Action Trencher Lowers It 17 Ft, and Weights Hold It There at El-80 by H. T. Perez, p50, Aug.

Twin Pipelines Cross 4-Mile Straits, p54, Dec.

#### PRECASTING

Barracks Erected with Vacuum Lift, p65, June

Casting Yard Operation is Most Critical Phase of Four-Step Construction of Warehouses by Tip Brown, p55, Aug.

Concrete Slabs are Piled Neatly and Seven-High by Outsize Straddle Truck in Casting Yard, p123, Mar.

Heavy Precast Members Make Sturdy Tower Foundations by L. L. Wise, p60, Mar.

New Twist in Wall Construction Pays Off, p59, Apr

Old Steel Tops New Concrete Frame on Site of Former Light Structure, p80, Apr.

Precast Concrete Construction Book, p156, Oct.

Precast Warehouses Go Up Fast and Cheaply by H. T. Perez, p104, Sept.

Precasting Pays Off on Long Concrete Trestle by H. W. Richardson, p54, Jan.

Simple Prestressing Methods on Tampa Bay Bridge by H. W. Richardson, p54, Sept.

Steel Forms Mold Concrete . . . . C Pier Shells by L. L. Wise p50, Dec. Create Bridge

#### PRESTRESSING

Simple Prestressing Methods on Tampa Bay Bridge by H. W. Richardson, p54, Sept.

# R

# RAILROAD BUILDING

Cat Sled Trains and Light Float Planes Build Railroad Through North Canadian Bush by H. W. Richardson, p62, Oct.

#### RECORD KEEPING

Analyzed Oil Samples From Construction Equipment Cut Maintenance Costs, p156, July

Simple Forms Cut Maintenance Paper Work, p118, July

#### RIGGING

Gallows Frame Sets Big, Fragile Tanks, p106,

Good Fabrication and Erection Ideas, p126, May

How to Select the Correct Sling for the Job by W. C. Richards, p114, Apr.

It's Not the Fall . . . It's the Sudden Stop by W. E. Rossnagel, p112, Feb.

# ROADBUILDING

Native Materials Make Good Road, p172, May

Roadbuilding is Everywhere . . . Is a Composite of Activities, p106, May

#### ROOFS

High Line Crew Places Novel Roof, p52, Feb. How to Construct Terne Steel Roofs, p174, Apr. Special Tools Cover 15-Acre Roof Quickly, p154, Nov.

Spinning an Aluminum Spiderweb by H. W. Richardson, p60, June

#### S

#### SAFETY

. . . About Safety, plo, June

Asking for Trouble, p51, Apr.

Be Cautious With Hand Tools, p168, Dec.

Carpenters Get Hurt More Often, p175, May

Disheartening Picture of a Spread, p84, Apr.

Electrical Hazards, p171, Mar.

Get Your Safety Directory, p158, Apr.

How to Avoid Electric Tool Shock by Dr. Edwin L. Lotz, p69, Apr.

Job-Placement Physical Examination , , , Are They Desirable?, p51, Nov.

Handling of Cylinder Cases, p16, July

It's Not the Fall . . . It's the Sudden Stop by W. E. Rossnagel, p112, Feb.

Keep Drivers Right or They Might Be Left Injured, p70, Sept.

Material Handling, p171, Mar.

Ounces of Safety, p88, Feb,

Preventable Accidents , , , Or Where Was the Foreman?, p210, July

Safer Power for You, p132, Sept.

Safety Saves Money at Project Blue Jay, p150, Mar

Safety with Explosives, p6, Feb.

Safety with Explosives, p12, Mar.

Selling Safety in England, p162, Sept.

Somebody Should Be Mighty Proud!, p51, June

Take Time to Instruct New Employees, p144. May

Thanks for the Lift!, p61, Feb.

What You Should Know About Rope by John Durgin, p133, Mar.

Who is Responsible?, p95, Aug.

Your Safety Guard: Keep It Up!, p165, Sept.

### SALES AND SERVICE

p150, Jan.; p166, Feb.; p182, Mar.; p160, Apr.; p160, May; p182, June; p201, July; p120, Aug.; p172, Sept.; p161, Oct.; p175, Nov.

#### SALVAGE

Aerial Cableway Speeds Pipe-Bridge Salvage, p148, Oct.

Second-Hand Concrete Pit Brings a Tidy Construction Saving, p59, June

#### SAND PRODUCTION

Pumps Produce, Classify and Lond Sand, p61, Oct.

# SAWING

Whoever Heard of Sawing Vertically Up a Concrete Wall?, p62, May

#### SEALING

Asphalt Sealer Sprayed by Air Guns . . . Air-Placed Sand Follows, p136, Aug.

Waterstops Water at Hotel Pool, p101, Aug.

#### SEWERS

Air Jacks Push Pipe Through Embankment, p78.

Simple Procedures Help Divers Place Sewer Outfall by James H. Gilbert, p81, Mar.

#### SHORING

Steel Shores Fit Neatly Into Holes in Wall, Hold Two Floors for School Building Corner Modification, p89, Feb.

#### SLIP-FORMS

Continuous Pour Builds Concrete Bleach Plant, p93, Nov.

Continuous Pour Raises Silo Fast by James W. MacDonald, p64, Jan.

Hydraulic Jacks Expand the Versatility of Slip-Form Concreting, p64, May

#### SOIL STABILIZATION

Electric Curtain Stabilizes Wet Ground for Deep Excavation by H. W. Richardson, p52, Apr.

Traveling Asphalt Plant Mixes Soil-Cement Base, p153, Mar.

Wellpoints Can Do Many Jobs, p72, June

#### STEEL ERECTION

Crane Picks Up Mast for Mountain-to-the-Sea Tower Raising, p88, Apr.

Erect High Towers Over Busy Railroad, p148, Nov.

Good Fabrication and Erection Ideas, p126, May High Line Crew Places Novel Roof, p52, Feb.

# STONE SETTING

High Scaffolding Supports Heavy Stone, p60,

# T

## TILT-UP

New Twist in Wall Construction Pays Off, p59, Apr.

# TRENCHING

Lays 300 to 400 Feet of Tile Per Hour, p56, May

# TUNNELS

Concrete Blocks Support Shield-Driven Tunnel by H. T. Perez, p6.), Nov.

Continuous Miner Digs Sewer Tunnel Through Shale, p54, Oct.

Long Capitol Tunnel Nears Completion, p124, Oct.

New Tunneling Achievements Reached in Driving Big Ontario Hydro Tubes by H. W. Richardson, p64, Mar.

Short Rounds Lick Mica Schist on Fast Tunnel Job by H. T. Perez, p58, May

Tunnel Blast Close-Up, p44, Jan.

# W

# WELDING

Automatic Welding Builds Up Track Links, p105, Jan.

Contractor Makes His Own Sheepsfoot Roller, p63, Sept.

Self-Contained Arc, p150, Apr.

# WINTER CONSTRUCTION

Big Top Speeds Job During Winter Months, ps0, May

Turn on the Heat: Part 1, p66, Nov.

Turn on the Heat: Part 2, p68, Dec.

You Can Doze in Winter, p50, Jan.

#### AUTHORS

#### APPEL, T. B., JR.

Concrete Mixing and Placing Part 1: Portable and Semi-Portable On-the-Job Plants, p94, Oct.

Concrete Mixing and Placing Part 2: Single-Material and Multiple Batchers, p103, Nov.

Concrete Mixing and Placing Part 3: Weighbeam and Dial Scales, p95, Dec.

#### BROWN, J. W.

How Four-Cycle and Two-Cycle Diesels Work, p107, Mar.

#### BROWN, TIP

Casting Yard Operation is Most Critical Phase of Four-Step Construction of Warehouses, p55, Aug.

#### CONNOLLY, JAMES M.

Air-Powered Saw Can Be Used Anywhere , . . . Even Under Water, p121, Jan.

15X-Baker's New, Husky No-Pushheam Bulldozer, p107, Feb.

### DRANEY, JOHN P.

42-Story Building Straddles R.R. Tracks on 250 Concrete Caissons 110 Ft. in Depth, p141, June

#### DURGIN, JOHN

What You Should Know About Rope, p133, Mar.

#### EVANS, R. D.

Tractor-Shovels - Part 1: Development, Uses and Equipment, p88, May

Tractor-Shovels Part 2: Correct Operating Procedures, p109, June

#### FLOOD, F. L., JR.

Water Tops 600-Ft. Dam Built in 52 Days to Replace Timber Crib That Failed, p70, Jan.

#### GILBERT, JAMES H.

Simple Proceedures Help Divers Place Sewer Outfall, p81, Mar.

# GRINDROD, JOHN

Site Batch Plant Supplies Two Pavers, p64, Apr

#### HUNT, HAL

Big Rigs Drive 220-Ft. Pipe Piles, p62, Feb.

# KROMER, L. B., JR.

On-the-Job Contractor-Labor Relations (See Labor)

How to Improve Contractor-Labor Relations— Part 1: What the Contractor Can Do, p79, Oct.

How to Improve Contractor-Labor Relations Part 2: The Unions Make Suggestions, p130, Dec

#### LANGER, RUDOLPH H.

Insulation Takes Lead . . . Bricks Trail in Brewery Wall, p83, Jan.

# LEWIS, R. H.

Motorists' West Virginia Turnpike View is Spectacular, But Contractors' View is Hard Work, Rough Going, p64, Sept.

Sheppard Builds Them Strong, But Makes Them Simple, p110, Oct.

This Contractor Runs Construction Costs Down By Building Ramps and Purchasing Buggies, 193, June

#### LONDON, E. F.

High-Production Grading in Texas, pss. Jan.

#### LOTZ, DR. EDWIN I.

How to Avoid Electric Tool Shock, p69, Apr.

#### MacDONALD, JAMES W.

Continuous Pour Raises Silo Fast, p64, Jan.

### MATHEIS, FRED

Rubber Conveyor Belting-It's Construction, Selection, Maintenance and Repair, p129, July

#### McGREGOR, R. H.

Hints on Care of Flexible Hose, p97, Aug.

#### MULLER, J. A.

What You Should Know About Hose, p76, Feb.

#### PARKER, V. H.

How Do You Treat Your Batteries?, p109, July

#### PEREZ. H. T.

Concrete Blocks Support Shield-Driven Tunnel, p60, Nov.

Here's One Way to Build a Rock-Fill Dam, p52, June

Precast Warehouses Go Up Fast and Cheaply, p104, Sept.

Short Rounds Lick Mica Schist on Fast Tunnel, Schield Puts Bantams on Crawlers, p87, Aug. p58, May

Submarine Pipeline is Too High, So Jet-Action Trencher Lowers It 17 Ft. and Weights Hold It There at El-80, p50, Aug.

#### RICHARDS, W. C.

How to Select the Correct Sling for the Job, p114, Apr.

#### RICHARDSON, H. W.

Austin-Western's All-Hydraulic Crane, p116, Dec. Baker-Lull Launches Rugged Front-End Loader, p116, Sept.

Cat Sled Trains and Light Float Planes Build Railroad Through North Canadian Bush, p62,

Drill Barge Rides Everglades Muck, p52, May

Editorials (by Rich)

Electric Curtain Stabilizes Wet Ground for Deep Excavation, p52, Apr.

Eimco Rocker Shovel Built on Integral Crawlers, p138, Nov.

Jaeger Rolls Into Loader Field With Torque-Converter 1-Yd. Unit, p93, Apr.

New Tunneling Achievements Reached in Driving Big Ontario Hydro Tubes, p64, Mar.

Precasting Pays Off on Long Concrete Trestle, p54, Jan.

Simple Prestressing Methods on Tampa Bay Bridge, p54, Sept.

Spinning an Aluminum Spiderweb, p60, June

#### ROSSNAGEL, W. E.

It's Not the Fall . . . It's the Sudden Stop, p112, Feb.

#### SPELMAN, H. JAMES, JR.

Contractor's Formless Paver Shows Promise,

# STEPHENS, J. R.

Riprap Weir Takes High Water Across Rolled Earthfill, Helps Tunnels Divert Stream Over Dam Under Construction, p92, Sept.

# STUEBING, A. F.

High-Strength Steel Helps You, p186, July

#### WISE, L. L.

Heavy Precast Members Make Sturdy Tower Foundations, p60, Mar.

Side-Cutting Euclid Loader Speeds Palisades Dam Fill,  $\,\mathrm{p50},\,\mathrm{Oct}.$ 

Steel Forms Mold Concrete . . . Create Bridge Pier Shells, p50, Dec.

# CONSTRUCTION **METHODS** AND EQUIPMENT

330 West 42nd St., New York 36, N. Y.